

~~an optical reception circuit converting an optical signal received from any external source to an electric signal;~~

~~a decoding circuit decoding the electric signal resultant from conversion by said optical reception circuit, judging whether or not the decoding is normally completed, and extracting reception light intensity information of a secondary station;~~

~~a coding circuit coding transmission data; and~~

~~an optical transmission circuit determining a light emission intensity based on the reception light intensity information of the secondary station extracted by said decoding circuit, and converting the transmission data coded by said coding circuit to an optical signal with the light emission intensity.~~

Sub E1 13. (Amended) A digital optical communication device comprising:

an optical reception circuit converting an optical signal received from any external source to an electric signal;

a decoding circuit decoding the electric signal resultant from conversion by said optical reception circuit, extracting a light emission intensity requested from a secondary station, and judging whether or not the decoding is normally completed;

a reception light intensity level judgement circuit judging a reception light intensity level based on the electric signal resultant from conversion by said optical reception circuit;

a secondary station request light emission intensity control signal generation circuit generating light emission intensity information requested to the secondary station based on result of the judgement by said decoding circuit and on the reception light intensity level judged by said reception light intensity level judgement circuit;

a coding circuit coding transmission data and the light emission intensity information requested to the secondary station generated by said secondary station request light emission intensity control signal generation circuit; and

an optical transmission circuit converting the transmission data and the light emission intensity information requested to the secondary station that are coded by said coding circuit with the light emission intensity requested from the secondary station that is extracted by said decoding circuit;

wherein said reception light intensity level judgement circuit judges the reception light intensity level by measuring a pulse width of the electric signal resultant from conversion by said optical reception circuit.

18. ~~(Amended) A digital optical communication method comprising the steps of:~~
converting an optical signal received from any external source to an electric signal;
decoding said electric signal resultant from conversion, judging whether or not the
decoding is normally completed, and extracting reception light intensity information of a
secondary station;
coding transmission data; and
determining a light emission intensity based on said extracted reception light intensity
information of the secondary station, and converting said coded transmission data to an optical
signal with the light emission intensity.